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EXPRESSION OF EACTOR VII AND IX ACTIVITIES
IN MAMMALIAN CELLS

Abstract of the Disclosure

Methods are disclosed for producing proteins having biological activity for blood coagulation mediated by Factor VIIa or Factor IX. The proteins are produced by mammalian host cells which have been stably transfected with a DNA construct containing a nucleotide sequence which codes at least partially for either Factor VII or Factor IX. The nucleotide sequence comprises a first nucleotide sequence encoding a calcium binding domain, joined to a second nucleotide sequence positioned downstream of the first sequence. In particular, the first nucleotide sequence may be derived from a genomic clone or cDNA clone of Factor VII. The second sequence encodes a catalytic domain for the serine protease activity of either Factor VIIA or Factor IX. The joined sequences code for proteins having substantially the same biological activity for blood coagulation as either Factor VIIa or Factor IX.

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